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OM protein - protein search, using sw model

Run on: September 23, 2004, 10:25:25 ; Search time 32 Seconds
 (without alignments)
 75.826 Million cell updates/sec

Title: US-10-072-809B-B
 Perfect score: 274
 Sequence: 1 RECKTEENTFPGICITKPC..... KFTDGHCSKLRLCLTKPC 47

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched:
 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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 Listing first 45 summaries

Database : Issued_Patents_AA:*

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4: /cgn2_6/podata/2/1aa/PCTRUS_COMB.pep:*

5: /cgn2_6/podata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

% SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	185	67.5	188	Patent No. 5175095-3
2	121	44.2	47	Sequence 28, Appl
3	121	44.2	47	Sequence 13, Appl
4	121	44.2	47	Sequence 28, Appl
5	121	44.2	47	Sequence 13, Appl
6	121	44.2	47	Sequence 28, Appl
7	116	42.3	74	Sequence 4, Appl
8	113	41.2	75	Sequence 2, Appl
9	113	41.2	75	Sequence 2, Appl
10	113	41.2	75	Sequence 2, Appl
11	107.5	39.2	83	Sequence 2, Appl
12	99	36.1	48	Sequence 29, Appl
13	99	36.1	48	Sequence 11, Appl
14	99	36.1	48	Sequence 29, Appl
15	99	36.1	48	Sequence 11, Appl
16	99	36.1	48	Sequence 29, Appl
17	97	35.4	47	Sequence 21, Appl
18	90.5	33.0	51	Sequence 61, Appl
19	88.5	32.3	51	Sequence 25, Appl
20	88.5	32.3	51	Sequence 46, Appl
21	88.5	32.3	51	Sequence 66, Appl
22	88.5	32.3	51	Sequence 76, Appl
23	88	32.1	47	Sequence 30, Appl
24	88	32.1	47	Sequence 12, Appl
25	88	32.1	47	Sequence 30, Appl
26	88	32.1	47	Sequence 12, Appl
27	88	32.1	47	Sequence 30, Appl

% ALIGNMENTS

RESULT 1
 5175095-3
 ;Patent No. 5175095
 ; APPLICANT: Martineau, Belinda M.; Houck, Catherine M.
 ; TITLE OF INVENTION: OVARY TISSUE TRANSCRIPTIONAL FACTORS
 ; NUMBER OF SEQUENCES: 9
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/554,195
 ; FILING DATE: 17-JUL-1990
 ; SEQ ID NO:3:
 ; LENGTH: 188
 5175095-3

Query Match Similarity 67.5%; Score 185; DB 6; Length 188;
 Best Local Similarity 66.7%; Pred. No. 1.5e-14; Mismatches 12; Indels 0; Gaps 0;

Qy 3 CKTEENTFPGICITKPCRACISEKFTDGHCSKLRLCLTKPC 47
 Db 42 CKAPSOIFFFFLUFMDSSCRKYCIKEKFIGGHCSSLRKCLTKPC 86

RESULT 2
 US-08-377-687-28
 ;Sequence 28, Application US/08377687
 ;PATENT NO. 5538525
 ;GENERAL INFORMATION:
 ;APPLICANT: BROEKART, WILLEM F.
 ;APPLICANT: CAMMUS, BRUNO P.A.
 ;APPLICANT: OSBORN, RUPERT W.
 ;APPLICANT: REES, SARAH B.
 ;APPLICANT: TERRAS, FRANKY R.G.
 ;APPLICANT: VANDERLEIJDEN, JOSEPH
 ;TITLE OF INVENTION: BIOCIDAL PROTEINS
 ;NUMBER OF SEQUENCES: 59
 ;CORRESPONDENCE ADDRESS:
 ;ADDRESSEE: CUSHMAN DABY & CUSHMAN
 ;STREET: 1100 NEW YORK AVENUE, N.W.
 ;CITY: WASHINGTON
 ;STATE: D.C.
 ;COUNTRY: USA
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/377,687
 FILING DATE: 3

CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/002,480
 FILING DATE: 04-JAN-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULIS, PAUL N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: 99042/SEE:36525/US/A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 47 amino acids
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: protein
 ORIGINAL SOURCE:
 ORGANISM: p322
 US-08-377-687-28

RESULT 3
 US-08-656-318A-13
 ; Sequence 13, Application US/08656318A
 ; Patent No. 5150504
 GENERAL INFORMATION:
 APPLICANT: BROEKERT, WILLEM F.
 APPLICANT: CAMMIE, BRUNO P.A.
 APPLICANT: OSBORN, RUPERT W.
 APPLICANT: REES, SARAH B.
 TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
 NUMBER OF SEQUENCES: 13
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 ADDRESSEE: Intellectual Property Group of
 ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
 STREET: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D. C.
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/556,318A
 FILING DATE: 12-JUN-1996
 CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: GB 9326424.0
 FILING DATE: 24-DEC-1993
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/556,318A
 FILING DATE: 12-JUN-1996
 CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: GB 9326424.0
 FILING DATE: 24-DEC-1993
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB94/02766
 FILING DATE: 19-DEC-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULIS, PAUL N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: 224199/SEE37925/UST
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 861-075
 TELEFAX: (202) 822-0944
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:

Query Match Score 44.2%; DB 1; Length 47;
 Best Local Similarity 42.6%; Pred. No. 1.3e-07;
 Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

Qy 1 RCKEETNTFFPGCITKPKCACISEKFDTGHSKILRCLCTKPC 47
 Db 1 RCKEESNFFPGCITKPKCACISEKFDTGHSKILRCLCTKPC 47

RESULT 4
 US-08-777-192-28
 Sequence 28, Application US/08777192
 Patent No. 5824669
 GENERAL INFORMATION:
 APPLICANT: BROEKERT, WILLEM F.
 APPLICANT: CAMMIE, BRUNO P.A.
 APPLICANT: OSBORN, RUPERT W.
 APPLICANT: REES, SARAH B.
 APPLICANT: TERRAS, FRANKY R.G.
 APPLICANT: VANDERLEIJEN, JOZEF
 TITLE OF INVENTION: BIOCIDAL PROTEINS
 NUMBER OF SEQUENCES: 59
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 STREET: 1100 NEW YORK AVENUE, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/777,192
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/002,480
 FILING DATE: 04-JAN-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULIS, PAUL N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: 99042/SEE:36525/US/A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 47 amino acids
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: protein
 ORIGINAL SOURCE:
 ORGANISM: p322
 US-08-656-318A-13

Query Match Score 44.2%; DB 1; Length 47;
 Best Local Similarity 42.6%; Pred. No. 1.3e-07;
 Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

Qy 1 RCKEETNTFFPGCITKPKCACISEKFDTGHSKILRCLCTKPC 47
 Db 1 RCKEESNFFPGCITKPKCACISEKFDTGHSKILRCLCTKPC 47

RESULT 6
US-08-289-458-2
Sequence 2, Application US/08289458
GENERAL INFORMATION:
Patent No. 5608144
APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,
APPLICANT: LEE, Kathleen Y.
TITLE OF INVENTION: PLANT Gp2 PROMOTERS AND USES THEREOF
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/289,458
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Dow, Karen B.
REGISTRATION NUMBER: 29,684
REFERENCE/DOCKET NUMBER: 12176-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 75 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-289-458-2

Query Match 41.2%; Score 113; DB 1; Length 75;
Best Local Similarity 40.0%; Pred. No. 1.8e-06;
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;

Qy 3 CKTBTNTPGICITKPPCRACISEKFTDGHESKILRRCLCTKPC 47
Db 30 CEAUTGNFKGLCLSSRDCGNVCRREGFTDGSCTIGFRLQCFCTKPC 74

RESULT 10
US-09-127-646-2
Sequence 2, Application US/09127646
PATENT NO. 6231744
GENERAL INFORMATION:
APPLICANT: Beden, Catherine S.
APPLICANT: Dunsuir, Pamela
APPLICANT: Lee, Kathleen Y.
APPLICANT: DNA Plant Technology Corporation
TITLE OF INVENTION: Nucleic Acids Encoding Plant Group 2 Proteins and Uses
TITLE OF INVENTION: Thereof
FILE REFERENCE: 012176-004020US
CURRENT APPLICATION NUMBER: US/09/127,646
CURRENT FILING DATE: 1998-07-31
EARLIER APPLICATION NUMBER: US 08/289,458
EARLIER FILING DATE: 1994-08-12
EARLIER APPLICATION NUMBER: US 08/761,549
EARLIER FILING DATE: 1996-12-06
NUMBER OF SEQ ID NOS: 12
SEQ ID NO 2
LENGTH: 75
TYPE: PR
ORGANISM: Capsicum annuum
US-09-127-646-2

Query Match 41.2%; Score 113; DB 3; Length 75;
Best Local Similarity 40.0%; Pred. No. 1.8e-06;
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;

Qy 3 CKTBTNTPGICITKPPCRACISEKFTDGHESKILRRCLCTKPC 47
Db 30 CEAUTGNFKGLCLSSRDCGNVCRREGFTDGSCTIGFRLQCFCTKPC 74

RESULT 9
US-08-761-549-2
Sequence 2, Application US/08761549
GENERAL INFORMATION:
APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,
APPLICANT: LEE, Kathleen Y.
TITLE OF INVENTION: PLANT Gp2 PROMOTERS AND USES THEREOF
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICANT: CHUNG, CHANG HO
 TITLE OF INVENTION: SMALL AND CYSTEINE RICH ANTI FUNGAL DEFENSIN AND
 TITLE INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE
 FILE REFERENCE: 1942/44
 CURRENT APPLICATION NUMBER: US/09/442,631
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 2
 LENGTH: 83

TYPE: PRT
 ORGANISM: Capsicum annuum
 US-09-442-631-2

Query Match 39.2%; Score 107.5; DB 4; Length 83;
 Best Local Similarity 50.0%; Pred. No. 8.7e-06;
 Matches 20; Conservative 5; Mismatches 14; Indels 1; Gaps 1;

Qy 9 TFPSCITKPPCRKACI-SEKFTDGHSKILRKCLCTKPC 47
 Db 33 TKPVKCSSDPLCQLCKMEKEYVEDGHCFTILSKCLCMKRC 72

RESULT 12
 US-08-3177-687-29
 Sequence 29, Application US/08377687
 Patent No. 553825
 GENERAL INFORMATION:
 APPLICANT: BROEKERT, WILLEM F.
 ATTORNEY/AGENT INFORMATION:
 APPLICANT: CAMMUE, BRUNO P.A.
 APPLICANT: OSBORN, RUPERT W.
 APPLICANT: REES, SARAH B.
 APPLICANT: TERRAS, FRANKY R.G.
 APPLICANT: VANDERLEYDEN, JOZEFF.
 TITLE OF INVENTION: BIOCIDAL PROTEINS
 NUMBER OF SEQUENCES: 59
 CORESPONDENCE ADDRESS:
 ADDRESSEE: CUSHMAN DARBY & CUSHMAN
 STREET: 1100 NEW YORK AVENUE, N.W.
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/377,687
 CLASSIFICATION: 800
 PRIORITY DATA:
 APPLICATION NUMBER: 08/002,460
 FILING DATE: 04-JAN-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULIS, PAUL N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: 99042/SEE3.36525/US/A
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 48 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 ORIGINAL SOURCE:
 ORGANISM: Sla3

US-08-656-318A-11
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 Best Local Similarity 31.9%; Pred. No. 5.1e-05;
 Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;
 Qy 1 RECKTBSNTFFGICITKPPCRKACI-SEKFTDGHSKILRKCLCTKPC 47
 Db 1 RVCMGKSAGFKGLCKRDQNCAQVCLQEGNGGGNDGVMRQCKCIRQC 47
 RESULT 14
 US-08-777-192-29
 Sequence 29, Application US/0877192
 Query Match 36.1%; Score 99; DB 1; Length 48;

Patent No. 5924869

GENERAL INFORMATION:

APPLICANT: BROEKERT, WILLEM F.
 APPLICANT: CAMMUE, BRUNO P.A.
 APPLICANT: OSBORN, RUPERT W.
 APPLICANT: REES, SARAH B.
 APPLICANT: TERRAS, FRANKY R.G.
 APPLICANT: VANDERHEYDEN, JOZEF
 TITLE OF INVENTION: BIOCIDAL PROTEINS
 NUMBER OF SEQUENCES: 59

CORRESPONDENCE ADDRESS:

ADDRESSEE: CUSMAN DARBY & CUSHMAN
 STREET: 1100 NEW YORK AVENUE, N.W.
 CITY: WASHINGTON
 STATE: D.C.

COUNTRY: USA

ZIP: 20005

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/777,192
 FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/002,480
 FILING DATE: 04-JAN-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: KOKULIS, PAUL N.
 REGISTRATION NUMBER: 16,773
 REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-322-0344
 TELEX/FAX: 202-322-0300

SEQUENCE CHARACTERISTICS:

LENGTH: 48 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Peptide

US-08-777-192-29

Query Match
 Best Local Similarity 31.9%; Pred. No. 5.1e-05;
 Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;
 Qy 1 RECKTESNTFPGICITKPPRKACISEKRTDGHC SKILLRCLCTKPC 47
 Db 1 RVCMGKSAGFKGLMRDQNCAQVCLQEGGGNC DGVNMRQCRCIRQC 47

RESULT 15

US-08-956-459-11

Sequence 11, Application US/08956459

Patent No. 5919918

GENERAL INFORMATION:

APPLICANT: BROEKERT, WILLEM F.
 APPLICANT: CAMMUE, BRUNO P.A.
 APPLICANT: OSBORN, RUPERT W.
 APPLICANT: REES, SARAH B.

TITLE OF INVENTION: ANTIMICROBIAL PROTEINS

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
 STREET: 1100 New York Avenue, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20005-3318

COMPUTER READABLE FORM:

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OM Protein - protein search, using sw model

Run on: September 23, 2004, 18:55:30 ; Search time 128 Seconds
(without alignments)
118.072 Million cell updates/sec

Title: US-10-072-809B-8

Perfect score: 274

Sequence: 1 RECKTSENTFFGICITKPPC.....KFTDGHCSKSKILRRCLCTKPC 47

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 1349238 seqs, 321558718 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summariesDatabase : Published Applications AA:^{*}1: /cgnd_6_podata/2/pubpaas/us07_pubcomb.pep:
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9: /cgnd_6_podata/2/pubpaas/us09_pubcomb.pep:
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11: /cgnd_6_podata/2/pubpaas/us09_pubcomb.pep:
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13: /cgnd_6_podata/2/pubpaas/us09_pubcomb.pep:
14: /cgnd_6_podata/2/pubpaas/us10_pubcomb.pep:
15: /cgnd_6_podata/2/pubpaas/us10_pubcomb.pep:
16: /cgnd_6_podata/2/pubpaas/us60_new_pub.pep:
17: /cgnd_6_podata/2/pubpaas/us60_pubcomb.pep:
18: /cgnd_6_podata/2/pubpaas/us60_pubcomb.pep:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1

US-10-072-809A-8
; Sequence B, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 101
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US20030217382A1
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 8
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Nicotiana alata
US-10-072-109A-8

Query Match 100.0% ; Score 274; DB 15; Length 47;
Best Local Similarity 100.0%; Pred. No. 4.3e-25;
Matches 47; Conservatory 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 RECKTSENTFFGICITKPPRKACISEKTDGHCSKILRRCLCTKPC 47
Db 1 RECKTSENTFFGICITKPPRKACISEKTDGHCSKILRRCLCTKPC 47
RESULT 2
US-10-072-809A-14
; Sequence 14, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 8
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Nicotiana alata

Result No.	Score	Query Match	Length	DB ID	Description
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2	274	100.0	72	US-10-072-809A-14	Sequence 14, App1
3	274	100.0	80	US-10-072-809A-16	Sequence 16, App1
4	274	100.0	105	US-10-072-809A-18	Sequence 18, App1
5	272	99.3	47	US-10-072-809A-20	Sequence 25, App1
6	272	99.3	105	US-10-072-809A-51	Sequence 20, App1
7	264	96.4	105	US-10-072-809A-51	Sequence 51, App1
8	237	86.5	106	US-10-072-809A-52	Sequence 52, App1
9	208	75.9	79	US-10-072-809A-50	Sequence 50, App1
10	185	67.5	47	US-10-072-809A-26	Sequence 26, App1
11	185	67.5	105	US-10-072-809A-21	Sequence 21, App1
12	145	52.9	47	US-10-072-809A-27	Sequence 279, App1
13	145	52.9	78	US-10-072-809A-27	Sequence 278, App1
14	140	51.1	68	US-10-072-809A-27	Sequence 14203, App1
15	139	50.7	47	US-10-072-809A-27	Sequence 84, App1

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; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072, 809A
; CURRENT FILING DATE: 2002-09-12
; PRIORITY APPLICATION NUMBER: USSN 60/267, 271
; PRIORITY FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 14
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Nicotiana alata
US-10-072-809A-14

RESULT 3
US-10-072-809A-16
; Query Match 100.0%; Score 274;
; Best Local Similarity 100.0%; Pred. No. 6
; Matches 47; Conservative 0; Mismatches 0
Qy 1 RECKTESENTPGICITKPCRKACISEKFPTDGH
Db 26 RECKTESENTPGICITKPCRKACISEKFPTDGH

Query Match 100.0%; Score 274;
Best Local Similarity 100.0%; Pred. No. 6
Matches 47; Conservative 0; Mismatches 0
Qy 1 RECKTESENTPGICITKPCRKACISEKFPTDGH
Db 26 RECKTESENTPGICITKPCRKACISEKFPTDGH

RESULT 3
US-10-072-809A-16
; Sequence 16, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung
; TITLE OF INVENTION: Plant-derived molecules
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072, 809A
; CURRENT FILING DATE: 2002-09-12
; PRIORITY APPLICATION NUMBER: USSN 60/267, 271
; PRIORITY FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 16
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Nicotiana alata
US-10-072-809A-16

Query Match 100.0%; Score 274;
Best Local Similarity 100.0%; Pred. No. 7
Matches 47; Conservative 0; Mismatches 0
Qy 1 RECKTESENTPGICITKPCRKACISEKFPTDGH
Db 1 RECKTESENTPGICITKPCRKACISEKFPTDGH

Query Match 100.0%; Score 274;
Best Local Similarity 100.0%; Pred. No. 7
Matches 47; Conservative 0; Mismatches 0
Qy 1 RECKTESENTPGICITKPCRKACISEKFPTDGH
Db 1 RECKTESENTPGICITKPCRKACISEKFPTDGH

RESULT 4
US-10-072-809A-18
; Sequence 18, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung
; TITLE OF INVENTION: Plant-derived molecules
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072, 809A
; CURRENT FILING DATE: 2002-09-12
; PRIORITY APPLICATION NUMBER: USSN 60/267, 271
; PRIORITY FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 18
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Nicotiana alata
US-10-072-809A-18

```

Query Match 100.0%; Score 274; DB 15; Length 105;
 Best Local Similarity 100.0%; Pred. No. 9.5e-25;
 Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 47
 Db 26 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 72

RESULT 5
 US-10-072-809A-25
 ; Sequence 25, Application US/10072809A
 ; Publication No. US20030217382A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 ; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same
 ; TITLE OF INVENTION: Therefor
 ; FILE REFERENCE: 18-01
 ; CURRENT APPLICATION NUMBER: US/10/072,809A
 ; CURRENT FILING DATE: 2002-05-12
 ; PRIOR APPLICATION NUMBER: USNN 60/267,271
 ; PRIOR FILING DATE: 2001-02-08
 ; NUMBER OF SEQ ID NOS: 61
 ; SOFTWARE: Patentin version 3.0
 ; SEQ ID NO: 25
 ; LENGTH: 47
 ; TYPE: PRT
 ; ORGANISM: Peptide
 US-10-072-809A-25

Query Match 99.3%; Score 272; DB 15; Length 47;
 Best Local Similarity 97.9%; Pred. No. 7.4e-25;
 Matches 46; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 47
 Db 1 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 47

RESULT 6
 US-10-072-809A-20
 ; Sequence 20, Application US/10072809A
 ; Publication No. US20030217382A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 ; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same
 ; TITLE OF INVENTION: Therefor
 ; FILE REFERENCE: 18-01
 ; CURRENT APPLICATION NUMBER: US/10/072,809A
 ; CURRENT FILING DATE: 2002-09-12
 ; PRIOR APPLICATION NUMBER: USNN 60/267,271
 ; PRIOR FILING DATE: 2001-02-08
 ; NUMBER OF SEQ ID NOS: 61
 ; SOFTWARE: Patentin version 3.0
 ; SEQ ID NO: 20
 ; LENGTH: 105
 ; TYPE: PRT
 ; ORGANISM: Peptide
 US-10-072-809A-20

Query Match 99.3%; Score 272; DB 15; Length 105;
 Best Local Similarity 97.9%; Pred. No. 1.6e-24;
 Matches 46; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 47
 Db 26 RECKTESTNTPGICITKPPCRKACISEKFDTDGHCSKILRRCLCTKPC 72

RESULT 7
 US-10-072-809A-51
 ; Sequence 51, Application US/10072809A
 ; Publication No. US20030217382A1

GENERAL INFORMATION:
 APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
 TITLE OF INVENTION: therefor

FILE REFERENCE: 18-01
 CURRENT APPLICATION NUMBER: US/10/072, 809A
 CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: USSN 60/267, 271
 PRIOR FILING DATE: 2001-02-08
 NUMBER OF SEQ ID NOS: 61
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 51
 LENGTH: 105
 TYPE: PRT
 ORGANISM: Peptide
 US-10-072-809A-51

Query Match Similarity 96.4%; Score 264; DB 15; Length 105;
 Best Local Similarity 93.6%; Pred. No. 1.4e-23;
 Matches 44; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RECKTESNTFPGICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 47
 Db 26 KDCRKTESENTPGICITKPPCRACIKREKFTDGHCSKILRRCLCTKPC 72

RESULT 8
 US-10-072-809A-52
 Sequence 52, Application US/10072809A
 Publication No. US20030217382A1

GENERAL INFORMATION:
 APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
 TITLE OF INVENTION: therefor

FILE REFERENCE: 18-01
 CURRENT APPLICATION NUMBER: US/10/072, 809A
 CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: USSN 60/267, 271
 PRIOR FILING DATE: 2001-02-08
 NUMBER OF SEQ ID NOS: 61
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 52
 LENGTH: 106
 TYPE: PRT
 ORGANISM: Peptide
 US-10-072-809A-52

Query Match Similarity 86.5%; Score 237; DB 15; Length 106;
 Best Local Similarity 86.7%; Pred. No. 2.e-20;
 Matches 39; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CKTESNTFPGICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 47
 Db 29 QKAESNTFPOLICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 73

RESULT 9
 US-10-072-809A-50
 Sequence 50, Application US/10072809A
 Publication No. US20030217382A1

GENERAL INFORMATION:
 APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
 TITLE OF INVENTION: therefor

FILE REFERENCE: 18-01
 CURRENT APPLICATION NUMBER: US/10/072, 809A
 CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: USSN 60/267, 271
 PRIOR FILING DATE: 2001-02-08
 NUMBER OF SEQ ID NOS: 61
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 50
 LENGTH: 79

TYPE: PRT
 ORGANISM: Peptide
 US-10-072-809A-50

Query Match Similarity 75.9%; Score 208; DB 15; Length 79;
 Best Local Similarity 78.7%; Pred. No. 4.e-17;
 Matches 37; Conservative 1; Mismatches 7; Indels 2; Gaps 1;

Qy 1 RECKTESNTFPGICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 47
 Db 10 RECKE-ITGLCITNPQRKACTKEFTDGHCSKILRRCLCTKPC 54

RESULT 10
 US-10-072-809A-26
 Sequence 26, Application US/10072809A
 Publication No. US20030217382A1

GENERAL INFORMATION:
 APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
 TITLE OF INVENTION: therefor

FILE REFERENCE: 18-01
 CURRENT APPLICATION NUMBER: US/10/072, 809A
 CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: USSN 60/267, 271
 PRIOR FILING DATE: 2001-02-08
 NUMBER OF SEQ ID NOS: 61
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 26

TYPE: PRT
 ORGANISM: peptide
 US-10-072-809A-26

Query Match Similarity 67.5%; Score 185; DB 15; Length 47;
 Best Local Similarity 66.7%; Pred. No. 1.e-14;
 Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

Qy 3 CKTESNTFPGICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 47
 Db 3 CKAPSQTFFGLCFMDSSCRKYCIKEFTDGHCSKILQRKCCTKPC 47

RESULT 11
 US-10-072-809A-21
 Sequence 21, Application US/10072809A
 Publication No. US20030217382A1

GENERAL INFORMATION:
 APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
 TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
 TITLE OF INVENTION: therefor

FILE REFERENCE: 18-01
 CURRENT APPLICATION NUMBER: US/10/072, 809A
 CURRENT FILING DATE: 2002-09-12
 PRIOR APPLICATION NUMBER: USSN 60/267, 271
 PRIOR FILING DATE: 2001-02-08
 NUMBER OF SEQ ID NOS: 61
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 21
 LENGTH: 105

TYPE: PRT
 ORGANISM: peptide
 US-10-072-809A-21

Query Match Similarity 67.5%; Score 185; DB 15; Length 105;
 Best Local Similarity 66.7%; Pred. No. 3e-14;
 Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

Qy 3 CKTESNTFPGICITKPPCRACISERKFTDGHCSKILRRCLCTKPC 47
 Db 29 CKAPSQTFFGLCFMDSSCRKYCIKEFTDGHCSKILQRKCCTKPC 73

RESULT 12
 US-10-178-213-279
 ; Sequence 279, Application US/10178213
 ; Publication No. US20030041348A1
 GENERAL INFORMATION:
 ; APPLICANT: Simmons, Carl R.
 ; APPLICANT: Navarro Acevedo, Pedro A.
 ; APPLICANT: Cahoon, Leslie
 ; APPLICANT: McCutchen, Rebecca
 ; APPLICANT: Lu, Albert
 ; APPLICANT: Herrmann, Rafael
 ; APPLICANT: Wong, James

TITLE OF INVENTION: Use
 FILE REFERENCE: 35718/246703
 CURRENT APPLICATION NUMBER: US/10/178,213
 CURRENT FILING DATE: 2002-06-21
 PRIOR APPLICATION NUMBER: 60/300,152
 PRIOR FILING DATE: 2001-06-22
 PRIORITY NUMBER: SEQ ID NOS: 469
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 279
 LENGTH: 47
 TYPE: PRT
 ORGANISM: Triticum aestivum
 US-10-178-213-279

Query Match Score 145; DB 14; Length 47;
 Best Local Similarity 48.9%; Pred. No. 7 2e-10;
 Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 1 RECKTESSNTTFFGICITKPPCRKACISEKFIDGHCSKILRRLCITCKPC 47
 Db 1 RVCETDSTRFKGICMVGNCANICLIEGFTSGKCSGLRKICITCKPC 47

RESULT 13
 US-10-178-213-278

; Sequence 278, Application US/10178213
 ; Publication No. US20030041348A1
 GENERAL INFORMATION:
 ; APPLICANT: Simmons, Carl R.
 ; APPLICANT: Navarro Acevedo, Pedro A.
 ; APPLICANT: Harwell, Leslie
 ; APPLICANT: Cahoon, Rebecca
 ; APPLICANT: McCutchen, Rebecca
 ; APPLICANT: Lu, Albert
 ; APPLICANT: Herrmann, Rafael
 ; APPLICANT: Wong, James

TITLE OF INVENTION: Use
 FILE REFERENCE: 35718/246703
 CURRENT APPLICATION NUMBER: US/10/178,213
 CURRENT FILING DATE: 2002-06-21
 PRIOR APPLICATION NUMBER: 60/300,152
 PRIOR FILING DATE: 2001-06-22
 PRIORITY NUMBER: SEQ ID NOS: 469
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 278
 LENGTH: 78
 TYPE: PRT
 ORGANISM: Triticum aestivum
 US-10-178-213-278

Query Match Score 145; DB 14; Length 78;
 Best Local Similarity 48.9%; Pred. No. 1.e-09;
 Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 1 RECKTESSNTTFFGICITKPPCRKACISEKFIDGHCSKILRRLCITCKPC 47
 Db 1 RVCETDSTRFKGICMVGNCANICLIEGFTSGKCSGLRKICITCKPC 47

RESULT 14
 US-10-437-963-149203
 ; Sequence 149203, Application US/10437963
 ; Publication No. US20040123343A1
 GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Wu, Wei
 ; APPLICANT: Boukhazik, Andrey A.
 ; APPLICANT: Barbazuk, Brad
 ; APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With Title of Invention: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 18-21(5221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14
 NUMBER OF SEQ ID NOS: 204966
 SEQ ID NO: 149203
 LENGTH: 68
 TYPE: PRT
 ORGANISM: Oryza sativa
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT4530_4955C.1.pep

US-10-437-963-149203

Query Match Score 140; DB 16; Length 68;
 Best Local Similarity 51.1%; Pred. No. 4e-09;
 Matches 23; Conservative 7; Mismatches 17; Indels 0; Gaps 0;
 Qy 1 RECKTESSNTTFFGICITKPPCRKACISEKFIDGHCSKILRRLCITCKPC 47
 Db 22 RECEPTNEFKGICMVANANCANVCLTEGGSGKCSGRERCMCTXDC 68

RESULT 15
 US-10-178-213-84
 ; Sequence 84, Application US/10178213
 ; Publication No. US20030041348A1
 GENERAL INFORMATION:
 ; APPLICANT: Simmons, Carl R.
 ; APPLICANT: Navarro Acevedo, Pedro A.
 ; APPLICANT: Harwell, Leslie
 ; APPLICANT: Cahoon, Rebecca
 ; APPLICANT: McCutchen, Billy Fred
 ; APPLICANT: Lu, Albert
 ; APPLICANT: Herrmann, Rafael
 ; APPLICANT: Wong, James

TITLE OF INVENTION: Defensin Polynucleotides and Methods of Use
 FILE REFERENCE: 35718/246703
 CURRENT APPLICATION NUMBER: US/10/178,213
 CURRENT FILING DATE: 2002-06-21
 PRIOR APPLICATION NUMBER: 60/300,152
 PRIOR FILING DATE: 2001-06-22
 PRIORITY NUMBER: 60/300,152
 PRIOR FILING DATE: 2001-06-22
 PRIORITY NUMBER: SEQ ID NOS: 469
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 84
 LENGTH: 47
 TYPE: PRT
 ORGANISM: Beta vulgaris
 US-10-178-213-84

Query Match Score 139; DB 14; Length 47;
 Best Local Similarity 48.9%; Pred. No. 3.7e-09;

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Matches 23; Conservative 6; Mismatches 18; Indels 0; Gaps 0;
Y 1 RECKTESTNTFPGICITKPKCRMACISBEKFDFGHCSSKILRCCTKPC 47
| | | | | : | | | | | | | | | | | | | | | | | | | | | | | |
D 1 RTCMTPSHOFRGTCVSSRNCEASACTTERPFGSTCQGFRRCMCTKPC 47

search completed: September 23, 2004, 19:12:10
Job time : 129 secs